CUBIT Capability Proposal

Technical Area
Geometry, Meshing, Infrastructure, GUI, Graphics, etc..

Technical Lead
Cubit Developer in charge of technical area

GUI	Randy Morris

MRD Description
Describe the capability in terms of how a user would see it.

Create a more usable and comprehensive Mesh Quality Power Tool

SRS Description
What needs to be done by Cubit developers to implement this capability? Break the tasks into steps if applicable. (Steps should be on the order of 2 man-weeks or more)

1. Design and implement new power tool layout utilizing existing mesh quality tools, refinement, and smoothing capabilities.

Justification
Describe why this is important and what impact it will have if it is implemented. (or not implemented).

The current mesh quality power tool is not very useful and actually quite confusing. It needs to support the diagnostic-solution paradigm we have for the other power tools. That is, provide ways to diagnose problems, and have tools that will solve the problems.

Resources Who will work on this	**Time estimate** How much time will it take in man-weeks	**Targeted Release** 10.2 (August 06), 10.3 (March 2007), 10.4 (August 2007), Future (beyond FY07)
Randy Morris	2 weeks	10.2

Submitted By:	**Date:**
Steve Owen	4/5/06